

Attorney Docket No. 0756-7218

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor Patent Application of:

Shunpei YAMAZAKI et al.

Serial No. 10/712,062

Filed: November 14, 2003

For: SEMICONDUCTOR DEVICE AND  
METHOD OF FABRICATING SAME

) Group Art Unit: 2826

) Examiner: Fetsum Abraham

CERTIFICATE OF MAILING

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Alexandria, VA 22313-1450, on 2.8.06

*Fetsum Abraham*

**INFORMATION DISCLOSURE STATEMENT**

Honorable Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450


Dear Sir:

In accordance with the provisions of 37 C.F.R. 1.56 and 37 C.F.R. 1.97-1.99, Applicant submits herewith a Form PTO-1449 listing information known to Applicant and requests that this information be made of record in the above identified application. Copies are submitted herewith in accordance with 37 C.F.R. 1.98(a).

Copies of U.S. patents and U.S. publications are not enclosed in accordance with the Notice published in the Official Gazette on August 5, 2003 entitled *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003*, which waives the requirement under 37 CFR 1.98(a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. publication.

This Information Disclosure Statement is being submitted with an RCE. Therefore, no fee is required.

Respectfully submitted,

  
Eric J. Robinson  
Reg. No. 38,285  
Robinson Intellectual Property Law Office, P.C.  
PMB 955  
21010 Southbank Street  
Potomac Falls, Virginia 20165  
(571) 434-6789

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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*Fetsum Abraham*

**CORRECTION TO PREVIOUSLY SUBMITTED INFORMATION DISCLOSURE  
STATEMENT**

Honorable Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

It has come to applicant's attention that an Information Disclosure Statement previously submitted included inadvertent typographical errors or incomplete information.

Specifically, the Information Disclosure Statement filed November 14, 2003 included the following inaccuracies:

- 1) U.S. Patent 4,330,363 was incorrectly listed with the inventor as Biefesen et al. The correct inventor should be Biegesen et al.;
- 2) U.S. Patent 4,996,077 was incorrectly listed with the inventor as Mosiehi et al. The correct inventor should be Moslehi et al.
- 3) U.S. Patent No. 5,089,441 is incorreceted lised with the inventor as Mosiehi et al. The correct inventor should be Moslehi et al.
- 4) EP 0 178 447 was incorrectly listed with a publication date of 10/09/84. The correct publication date is 04/23/1986.
- 5) The article to Kruper et al. did not include the volume and number. The corrected citation should read: Kuper et al., "Effects of Fluorine Implantation on the

Kinetics of Dry Oxidation of Silicon," Volume 60, No. 3, August 1, 1986, pp. 985-990, J. Applied Physics.

6) The article to Nemanich et al. incorrectly lists the volume. The correct volume number is 23.

7) The article to Wolf et al. did not include the volume. The corrected citation should read: Wolf et al., "Thermal Oxidation of Single Crystal Silicon," Volume 1, 1986, pp. 207-211, Silicon Processing for the VLSI Era.


8) The article to Dvurechenskii et al. did not include the volume. The corrected citation should read: Dvurechenskii et al., "Transport Phenomena in Amorphous Silicon Doped by Ion Implantation of 3d Metals," Volume 95, 1986, pp. 635-640, Akademikian Lavrentev Prospekt 13, 630090 Novosibirsk 90, USSR.

9) The article to Hayzelden et al. incorrectly lists the date as May 15, 1993. The correct date is June 1, 1993.

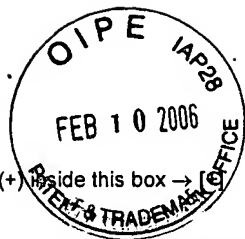
10) Page 5 and 10 of the Information Disclosure Statement have been initialed by the Examiner and dated "8/30/01." The subject application was filed on November 14, 2003, and therefore the date of review of incorrect. Copies are enclosed.

The above inaccuracies are corrected on the 1449 Form attached hereto. This *Correction to Previously Submitted Information Disclosure Statements* is being submitted herewith with an Information Disclosure Statement, RCE, and requisite fee. The Examiner is requested to initial the attached PTO Form 1449 evidencing consideration of the above references and line through these references on the previously submitted Information Disclosure Statements to ensure that the correct information is printed correctly on any issued patent.

Respectfully submitted,

  
Eric J. Robinson  
Reg. No. 38,285

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| Substitute for form 1449A/PTO<br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   |    |   | <b>Complete if Known</b> |  |                         |  |
|                                                                                                                                       |   |    |   | Application Number       |  | 10/712,062              |  |
|                                                                                                                                       |   |    |   | Filing Date              |  | November 14, 2003       |  |
|                                                                                                                                       |   |    |   | First Named Inventor     |  | Shunpei YAMAZAKI et al. |  |
|                                                                                                                                       |   |    |   | Group Art Unit           |  | 2826                    |  |
|                                                                                                                                       |   |    |   | Examiner Name            |  | Fetsum Abraham          |  |
| Sheet                                                                                                                                 | 1 | of | 1 | Attorney Docket Number   |  | 0756-7218               |  |

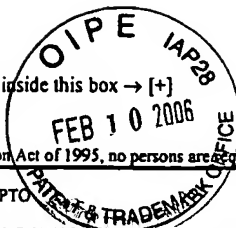
| U.S. PATENT DOCUMENTS |                          |                      |                                      |                                                    |                                                        |                                                                                 |
|-----------------------|--------------------------|----------------------|--------------------------------------|----------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------|
| Examiner<br>Initials  | Cite<br>No. <sup>1</sup> | U.S. Patent Document |                                      | Name of Patentee or Applicant of<br>Cited Document | Date of Publication of Cited<br>Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where<br>Relevant Passages or Relevant<br>Figures Appear |
|                       |                          | Number               | Kind Code <sup>2</sup><br>(if known) |                                                    |                                                        |                                                                                 |
|                       |                          | 4,330,363            |                                      | Biegesen et al.                                    | 05/18/1982                                             |                                                                                 |
|                       |                          | 4,996,077            |                                      | Moslehi et al.                                     | 02/26/1991                                             |                                                                                 |
|                       |                          | 5,089,441            |                                      | Moslehi                                            | 02/18/1992                                             |                                                                                 |
|                       |                          |                      |                                      |                                                    |                                                        |                                                                                 |
|                       |                          |                      |                                      |                                                    |                                                        |                                                                                 |
|                       |                          |                      |                                      |                                                    |                                                        |                                                                                 |

| FOREIGN PATENT DOCUMENTS |                          |                         |                     |                                      |                                                       |                                                        |                                                                                 |                |
|--------------------------|--------------------------|-------------------------|---------------------|--------------------------------------|-------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------|----------------|
| Examiner<br>Initials     | Cite<br>No. <sup>1</sup> | Foreign Patent Document |                     |                                      | Name of Patentee or<br>Applicant of Cited<br>Document | Date of Publication of Cited<br>Document<br>MM-DD-YYYY | Pages, Columns, Lines,<br>Where Relevant Passages<br>or Relevant Figures Appear | T <sup>6</sup> |
|                          |                          | Office <sup>3</sup>     | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |                                                       |                                                        |                                                                                 |                |
|                          |                          | EP                      | 0 178 447           |                                      |                                                       | 04/23/1986                                             |                                                                                 | Eng.           |
|                          |                          |                         |                     |                                      |                                                       |                                                        |                                                                                 |                |
|                          |                          |                         |                     |                                      |                                                       |                                                        |                                                                                 |                |
|                          |                          |                         |                     |                                      |                                                       |                                                        |                                                                                 |                |

| OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS |                          |                                                                                                                                                                                                                                                                       |                    |
|---------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| Examiner<br>Initials                              | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the<br>item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s),<br>publisher, city and/or country where published. | T <sup>2</sup>     |
|                                                   |                          | Kuper et al., "Effects of Fluorine Implantation on the Kinetics of Dry Oxidation of<br>Silicon," Volume 60, No. 3, August 1, 1986, pp. 985-990, J. Applied Physics.                                                                                                   |                    |
|                                                   |                          | Nemanich et al., "Structure and Growth of the Interface of Pd on a-SiH <sub>3</sub> ," June 15, 1981,<br>pp. 6828-6831, The American Physical Society Physics Review, Vol. 23, No. 12.                                                                                |                    |
|                                                   |                          | Wolf et al., "Thermal Oxidation of Single Crystal Silicon," Volume 1, 1986, pp. 207-211,<br>Silicon Processing for the VLSI Era.                                                                                                                                      |                    |
|                                                   |                          | Dvurechenskii et al., "Transport Phenomena in Amorphous Silicon Doped by Ion<br>Implantation of 3d Metals," Volume 95, 1986, pp. 635-640, Akademikian Lavrentev<br>Prospekt 13, 630090 Novosibirsk 90, USSR.                                                          |                    |
|                                                   |                          | Hayzelden et al., "Silicide Formation and Silicide Mediated Crystallization of Nickel-<br>Implanted Amorphous Silicon Thin Films," June 1, 1993, pp. 8279-8289, J. Appl. Phys.<br>73(12)                                                                              |                    |
| Examiner<br>Signature                             |                          |                                                                                                                                                                                                                                                                       | Date<br>Considered |

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br>(use as many sheets as necessary) |   |    |    | Application Number       | Based on 10/214,691      |
|                                                                                               |   |    |    | Filing Date              | August 9, 2002           |
|                                                                                               |   |    |    | First Named Inventor     | Shunpei YAMAZAKI, et al. |
|                                                                                               |   |    |    | Group Art Unit           | 2826                     |
|                                                                                               |   |    |    | Examiner Name            | Fetsum Abraham           |
| Sheet                                                                                         | 5 | of | 12 | Attorney Docket Number   | 0756-7218                |

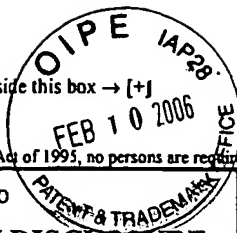
| U.S. PATENT DOCUMENTS             |                          |                      |                                      |                                                    |                                                        |                                                                              |
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|                                   |                          | Number               | Kind Code <sup>2</sup><br>(if known) |                                                    |                                                        |                                                                              |
| PR                                |                          | 6,013,929            |                                      | Ohtani                                             | 01/11/00                                               |                                                                              |
|                                   |                          | 6,048,758            |                                      | Yamazaki et al.                                    | 04/11/00                                               |                                                                              |
|                                   |                          | 6,063,654            |                                      | Ohtani                                             | 05/16/00                                               |                                                                              |
|                                   |                          | 6,077,731            |                                      | Yamazaki et al.                                    | 06/20/00                                               |                                                                              |
|                                   |                          | 6,093,934            |                                      | Yamazaki et al.                                    | 07/25/00                                               |                                                                              |
|                                   |                          | 6,100,562            |                                      | Yamazaki et al.                                    | 08/08/00                                               |                                                                              |
|                                   |                          | RE 28,385            |                                      | Mayer                                              | 04/08/75                                               |                                                                              |
|                                   |                          | RE 28,386            |                                      | Heiman et al.                                      | 04/08/75                                               |                                                                              |

| FOREIGN PATENT DOCUMENTS          |                          |                         |                     |                                      |                                                    |                                                        |                                                                                 |
|-----------------------------------|--------------------------|-------------------------|---------------------|--------------------------------------|----------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------------------------|
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| PR                                |                          | EP                      | 0 178 447           |                                      |                                                    | 10/09/84                                               | English                                                                         |
|                                   |                          | JP                      | 01-187814           |                                      |                                                    | 07/27/89                                               | Full                                                                            |
|                                   |                          | JP                      | 01-187874           |                                      |                                                    | 07/27/89                                               | Abst.                                                                           |
|                                   |                          | JP                      | 01-187875           |                                      |                                                    | 07/27/89                                               | Abst.                                                                           |
|                                   |                          | JP                      | 01-206632           |                                      |                                                    | 08/18/89                                               | Abst.                                                                           |
|                                   |                          | JP                      | 02-140915           |                                      |                                                    | 05/30/90                                               | Full                                                                            |
|                                   |                          | JP                      | 02-148687           |                                      |                                                    | 06/07/90                                               | Abst.                                                                           |
|                                   |                          | JP                      | 02-275641           |                                      |                                                    | 11/09/90                                               | Abst.                                                                           |
|                                   |                          | JP                      | 03-280418           |                                      |                                                    | 12/11/91                                               | Abst.                                                                           |
|                                   |                          | JP                      | 03-280420           |                                      |                                                    | 12/11/91                                               | Full                                                                            |
|                                   |                          | JP                      | 05-082442           |                                      |                                                    | 04/02/93                                               | Abst.                                                                           |
|                                   |                          | JP                      | 05-107561           |                                      |                                                    | 04/30/93                                               | Abst.                                                                           |
|                                   |                          | JP                      | 05-299348           |                                      |                                                    | 11/12/93                                               | Abst.                                                                           |
|                                   |                          | JP                      | 06-232059           |                                      |                                                    | 08/19/94                                               | Full                                                                            |
|                                   |                          | JP                      | 07-161634           |                                      |                                                    | 06/23/95                                               | Abst.                                                                           |
|                                   |                          | JP                      | 07-321339           |                                      |                                                    | 12/08/95                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-129358           |                                      |                                                    | 05/21/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-129359           |                                      |                                                    | 05/21/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-129360           |                                      |                                                    | 05/21/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-234683           |                                      |                                                    | 09/13/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-241047           |                                      |                                                    | 09/17/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-241048           |                                      |                                                    | 09/17/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-241057           |                                      |                                                    | 09/17/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 08-241997           |                                      |                                                    | 09/17/96                                               | Abst.                                                                           |
|                                   |                          | JP                      | 60-105216           |                                      |                                                    | 06/10/85                                               | Full                                                                            |
|                                   |                          | JP                      | 61-063017           |                                      |                                                    | 04/01/86                                               | Full                                                                            |
|                                   |                          | JP                      | 61-063107           |                                      |                                                    | 04/01/86                                               | Abst.                                                                           |
|                                   |                          | JP                      | 62-169356           |                                      |                                                    | 07/25/87                                               | Abst.                                                                           |

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| Examiner<br>Signature | 8/30/01 | Date<br>Considered | 8/30/01 |
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|                                                                                               |    |    |    | Group Art Unit           | 2826                     |
|                                                                                               |    |    |    | Examiner Name            | Fetsum Abraham           |
| Sheet                                                                                         | 10 | of | 12 | Attorney Docket Number   | 0756-7218                |

| U.S. PATENT DOCUMENTS             |                          |                      |                                      |                                                    |                                                        |                                                                              |
|-----------------------------------|--------------------------|----------------------|--------------------------------------|----------------------------------------------------|--------------------------------------------------------|------------------------------------------------------------------------------|
| Examiner<br>Initials <sup>1</sup> | Cite<br>No. <sup>1</sup> | U.S. Patent Document |                                      | Name of Patentee or Applicant of Cited<br>Document | Date of Publication of Cited<br>Document<br>MM-DD-YYYY | Pages, Columns, Lines, Where Relevant<br>Passages or Relevant Figures Appear |
|                                   |                          | Number               | Kind Code <sup>3</sup><br>(if known) |                                                    |                                                        |                                                                              |
| (77)                              |                          | 5,403,772            |                                      | Zhang et al.                                       | 04/04/95                                               |                                                                              |
|                                   |                          | 5,426,064            |                                      | Zhang et al.                                       | 06/20/95                                               |                                                                              |
|                                   |                          | 5,481,121            |                                      | Zhang et al.                                       | 01/02/96                                               |                                                                              |
|                                   |                          | 5,488,000            |                                      | Zhang et al.                                       | 01/30/96                                               |                                                                              |
|                                   |                          | 5,492,843            |                                      | Adachi et al.                                      | 02/20/96                                               |                                                                              |
|                                   |                          | 5,501,989            |                                      | Takayama et al.                                    | 03/26/96                                               |                                                                              |
|                                   |                          | 5,508,533            |                                      | Takemura                                           | 04/16/96                                               |                                                                              |
|                                   |                          | 5,529,937            |                                      | Zhang et al.                                       | 06/25/96                                               |                                                                              |
|                                   |                          | 5,534,716            |                                      | Takemura                                           | 07/09/96                                               |                                                                              |
|                                   |                          | 5,543,352            |                                      | Ohtani et al.                                      | 08/06/96                                               |                                                                              |
|                                   |                          | 5,563,426            |                                      | Zhang et al.                                       | 10/08/96                                               |                                                                              |
|                                   |                          | 5,569,610            |                                      | Zhang et al.                                       | 10/29/96                                               |                                                                              |
|                                   |                          | 5,569,936            |                                      | Zhang et al.                                       | 10/29/96                                               |                                                                              |
|                                   |                          | 5,580,792            |                                      | Zhang et al.                                       | 12/03/96                                               |                                                                              |
|                                   |                          | 5,585,291            |                                      | Ohtani et al.                                      | 12/17/96                                               |                                                                              |
|                                   |                          | 5,589,694            |                                      | Takayama et al.                                    | 12/31/96                                               |                                                                              |
|                                   |                          | 5,595,923            |                                      | Zhang et al.                                       | 01/21/97                                               |                                                                              |
|                                   |                          | 5,595,944            |                                      | Zhang et al.                                       | 01/21/97                                               |                                                                              |
|                                   |                          | 5,604,360            |                                      | Zhang et al.                                       | 02/18/97                                               |                                                                              |
|                                   |                          | 5,605,846            |                                      | Ohtani et al.                                      | 02/25/97                                               |                                                                              |
|                                   |                          | 5,606,179            |                                      | Yamazaki et al.                                    | 02/25/97                                               |                                                                              |
|                                   |                          | 5,608,232            |                                      | Yamazaki et al.                                    | 03/04/97                                               |                                                                              |
|                                   |                          | 5,612,250            |                                      | Ohtani et al.                                      | 03/18/97                                               |                                                                              |
|                                   |                          | 5,614,426            |                                      | Funada et al.                                      | 03/25/97                                               |                                                                              |
|                                   |                          | 5,614,733            |                                      | Zhang et al.                                       | 03/25/97                                               |                                                                              |
|                                   |                          | 5,616,506            |                                      | Takemura                                           | 04/01/97                                               |                                                                              |
|                                   |                          | 5,620,910            |                                      | Teramoto                                           | 04/15/97                                               |                                                                              |
|                                   |                          | 5,621,224            |                                      | Yamazaki et al.                                    | 04/15/97                                               |                                                                              |
|                                   |                          | 5,624,851            |                                      | Takayama et al.                                    | 04/29/97                                               |                                                                              |
|                                   |                          | 5,637,515            |                                      | Takemura                                           | 06/10/97                                               |                                                                              |
|                                   |                          | 5,639,698            |                                      | Yamazaki et al.                                    | 06/17/97                                               |                                                                              |
|                                   |                          | 5,643,826            |                                      | Ohtani et al.                                      | 07/01/97                                               |                                                                              |
|                                   |                          | 5,646,424            |                                      | Zhang et al.                                       | 07/08/97                                               |                                                                              |
|                                   |                          | 5,654,203            |                                      | Ohtani et al.                                      | 08/05/97                                               |                                                                              |
|                                   |                          | 5,656,825            |                                      | Kusumoto et al.                                    | 08/12/97                                               |                                                                              |
|                                   |                          | 5,663,077            |                                      | Adachi et al.                                      | 09/02/97                                               |                                                                              |
|                                   |                          | 5,677,549            |                                      | Takayama et al.                                    | 10/14/97                                               |                                                                              |
|                                   |                          | 5,696,386            |                                      | Yamazaki                                           | 12/09/97                                               |                                                                              |
|                                   |                          | 5,696,388            |                                      | Funada et al.                                      | 12/09/97                                               |                                                                              |
|                                   |                          | 5,700,333            |                                      | Yamazaki et al.                                    | 12/23/97                                               |                                                                              |

|                       |                  |                    |         |
|-----------------------|------------------|--------------------|---------|
| Examiner<br>Signature | <i>Fet Hsueh</i> | Date<br>Considered | 8/30/01 |
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